

FHE SERIES

CENTRIFUGAL ELECTRIC PUMPS IN COMPLIANCE WITH EN 733 - DIN 24255

Cast iron pump body and AISI 316L stainless steel, laser-technology welded impeller ⁽¹⁾. Suitable for pumping hot and cold, moderately aggressive liquids.

APPLICATIONS

- Water circulation and transfer in civil, industrial and agricultural sectors.
- Pressure boosting.
- Water supply.
- Circulation of hot and cold water in heating and conditioning systems.
- Industrial washing.

AVAILABLE MODELS

- **FHE** close-coupled with special motor shaft extension.
- **FHS** with stub shaft and standard motor.
- **FHF** with flexible coupling, base and standard motor in compliance with EN 733 – DIN 24255.

SPECIFICATIONS

- **Maximum delivery** up to **220 m³/h**.
- **Maximum head** up to **95 m**.
- **AISI 316** stainless steel wear rings.
- Mechanical seal lubricated by internal recirculation of pumped liquid to seal housing.
- **Nominal diameter of ports** up to **80 mm**.
- **Nominal diameter of impeller** up to **250 mm**.
- 2-pole single-phase motors up to 2.2 kW.
- 2 and 4-pole three-phase motors.
- 50 and 60 Hz frequencies.
- Counterflanges available on request.
- IP55 protection.
- Class F insulation.
- **Maximum operating pressure: 12 bar (PN 12)**.
- **Temperature of pumped liquid: -10°C to +85°C (-20°C to +120°C for version with EPDM elastomers)**.
- **Versions with HYDROVAR frequency converter (variable speed) are available on request.**

⁽¹⁾ Cast iron impeller on some DN 65 and DN 80 models.

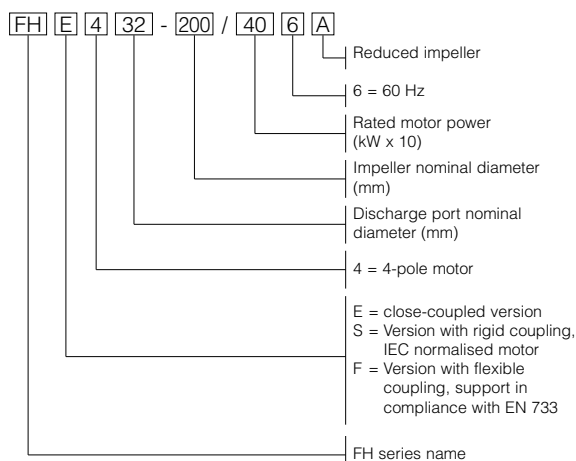


TABLE OF MATERIALS

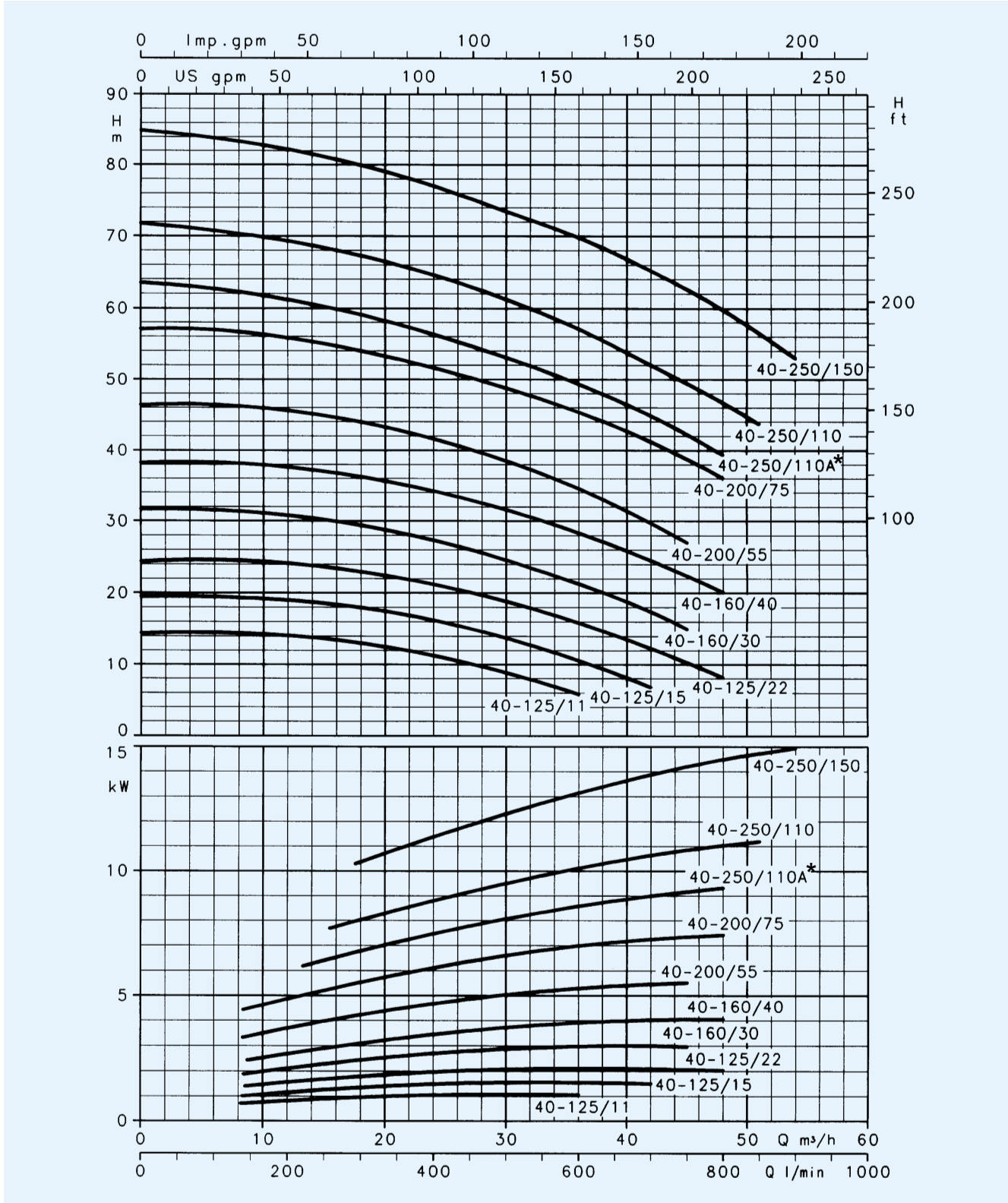
PART	MATERIAL
Pump body, Seal housing	DIN GG20 CAST IRON
Impeller 32, 40, 50, 65-125	STAINLESS STEEL AISI 316L – DIN 1.4404
Impeller 65-160, 65-200, 65-250, 80	DIN GG20 CAST IRON
Adapter	ALUMINIUM OR DIN GG20 CAST IRON
Mechanical seal*	CERAMIC/CARBON NITRILE RUBBER
O-ring seals	NITRILE RUBBER
Wear ring, Counterwear ring	STAINLESS STEEL AISI 316L – DIN 1.4404
Shaft (FHE – FHF)	STAINLESS STEEL
Coupling (FHS)	AISI 316 – DIN 1.4401
Support body (FHF)	DIN GG20 CAST IRON
Fill and drain plugs	NICKEL-PLATED BRASS

* -20°C to 120°C version: Ceramic / Carbon / EPDM

IDENTIFICATION CODE



FHE - FHS - FHF 40 SERIES
OPERATING CHARACTERISTICS at 2900 rpm 50 Hz, 2 POLES



* /92 for version FHE

These performances are valid for liquids with density $\rho = 1.0 \text{ kg/dm}^3$ and kinematic viscosity $\gamma = 1 \text{ mm}^2/\text{sec}$.



DIMENSIONS AND WEIGHTS, FHE 2 POLES SERIES

FHE FHE WITH SUPPORT FOOT ON PUMP MOTORS UP TO 11 kW

FLANGES

DN	D	M	G	HOLES		MAX. THICKNESS
				N°	Ø	
32	140	100	78	4	18	18
40	150	110	88	4	18	18
50	165	125	102	4	18	20
65	185	145	122	4	18	20

FHE WITH SUPPORT UNDER MOTOR 15 TO 22 kW MOTORS

FLANGES

DN	D	M	G	HOLES		MAX. THICKNESS
				N°	Ø	
80	200	160	138	8	18	22
100	220	180	158	8	18	22

PUMP TYPE	PUMP						SUPPORT										B	H max.	L	k	WEIGHT kg		
	DNM	DNA	a	h2	w	x	b	c	c1	h1	m	m1	n	n1	s	s1							
FHE 32-125/07	32	50	80	140	258	116	50	12	/	112	100	70	190	140	14	/	233	252	92	27			
FHE 32-125/11				112						233			252	432			28						
FHE 32-160/15				160						235			292	31									
FHE 32-160/22				160						283			121	132			240	190		235	292	461	34
FHE 32-200/30				180						283			121	132			240	190		285	340	461	43
FHE 32-200/40				180						290			133	160			285	340		487	49		
FHE 40-125/11	40	65	80	258	116	50	12	/	112	100	70	210	160	14	/	233	252	94	29,8				
FHE 40-125/15				140	258				116			112	210			160	233		252	432	31		
FHE 40-125/22				283	121				132			240	190			235	292		461	33			
FHE 40-160/30				160	283				121			132	240			190	250		292	461	36,3		
FHE 40-160/40				160	290				133			132	240			190	250		292	487	42,3		
FHE 40-200/55				180	311				151			160	265			212	285		340	553	59		
FHE 40-200/75			180	311	151	160	265	212	285	340	553	64											
FHE 40-250/92			278	191	65	14	320	250	405	604	91												
FHE 40-250/110			278	191	65	14	180	125	95	320	250	99											
FHE 40-250/150			208	232	50	22	20	260	210	318	254	123											
FHE 50-125/22			285	121	20	132	240	190	412	679	123												
FHE 50-125/30			160	285	121	132	240	190	483	37													
FHE 50-125/40	292	133	509	45																			
FHE 50-160/55	180	313	151	50	12	/	160	100	70	265	212	14	/	285	340	555	68						
FHE 50-160/75	180	313	151	160	265	212	285	340	555	72													
FHE 50-200/92	200	280	191	305	360	606	81																
FHE 50-200/110	200	280	191	305	360	606	86																
FHE 50-250/150	278	191	65	14	180	125	95	320	250	91													
FHE 50-250/185	225	208	232	50	22	20	180	304	254	318	254	13	23	340	412	679	113						
FHE 50-250/220	225	208	232	50	22	20	180	304	254	318	254	13	23	340	412	679	123						
FHE 65-125/40	65	80	100	292	133	65	14	/	160	125	95	280	212	14	/	285	340	108	509				
FHE 65-125/55				180	313				151							160	265		212	285	340	555	72
FHE 65-125/75				313	151				160							265	212		285	340	555	76	
FHE 65-160/92				278	191				65							14	320		250	405	604	95	
FHE 65-160/110				278	191				65							14	180		125	95	320	250	103
FHE 65-160/150				208	232				50							22	20		260	210	318	254	127
FHE 65-200/150			260	210	318	254	13	23	331	392	679	127											
FHE 65-200/185			260	210	318	254	13	23	331	392	679	139											
FHE 65-200/220			304	254	318	254	13	23	331	392	679	153											
FHE 65-250/220			250	40	200	332	450	723	125	159													
FHE 80-160/110			278	191	65	14	180	125	95	320	250	14	/	405	629	109							
FHE 80-160/150			225	208	232	50	22	20	180	260	210	318	254	13	23	332	412	713	133				
FHE 80-160/185	208	232	50	22	20	180	304	254	318	254	13	23	332	412	757	145							
FHE 80-200/220	250	40	200	332	430	757	129	159															

